

SEQUENCE LISTING

<110> BLUMENFELD, Marta
BOUGUELERET, Lydie
CHUMAKOV, Ilya

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<130> 46.US2.PCT

<140> US 09/762,311
<141> 2001-02-01

<150> US 60/095,653
<151> 1998-08-07

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<213> Homo sapiens

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acagaaaaac agtgataact gttttgctga gttcccagac ctttccaag atg gaa 176
Met Glu
1
cca ata aca ttc aca gca agg aaa cat ctg ctt cct aac gag gtc tcg 224
Pro Ile Thr Phe Thr Ala Arg Lys His Leu Leu Pro Asn Glu Val Ser
5 10 15
gtg gat ttt ggc ctg cag ctg gtg ggc tcc ctg cct gtg cat tcc ctg 272
Val Asp Phe Gly Leu Gln Leu Val Gly Ser Leu Pro Val His Ser Leu
20 25 30
acc acc atg ccc atg ctg ccc tgg gtt gtg gct gag gtg cga aga ctc 320
Thr Thr Met Pro Met Leu Pro Trp Val Val Ala Glu Val Arg Arg Leu
35 40 45 50
agc agg cag tcc acc aga aag gaa cct gta acc aag caa gtc cgg ctt 368
Ser Arg Gln Ser Thr Arg Lys Glu Pro Val Thr Lys Gln Val Arg Leu
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Cys Val Ser Pro Ser Gly Leu Arg Cys Glu Pro Glu Pro Gly Arg Ser
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caa cag tgg gat ccc ctg atc tat tcc agc atc ttt gag tgc aag cct 464
Gln Gln Trp Asp Pro Leu Ile Tyr Ser Ser Ile Phe Glu Cys Lys Pro
85 90 95
cag cgt gtt cac aaa ctg att cac aac agt cat gac cca agt tac ttt 512
Gln Arg Val His Lys Leu Ile His Asn Ser His Asp Pro Ser Tyr Phe
100 105 110
gct tgt ctg att aag gaa gac gct gtc cac cgg cag agt atc tgc tat 560
Ala Cys Leu Ile Lys Glu Asp Ala Val His Arg Gln Ser Ile Cys Tyr
115 120 125 130
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Val Phe Lys Ala Asp Asp Gln Thr Lys Val Pro Glu Ile Ile Ser Ser

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Ile Arg Gln Ala Gly Lys Ile Ala Arg Gln Glu Glu Leu His Cys Pro				
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Ser Glu Phe Asp Asp Thr Phe Ser Lys Lys Phe Glu Val Leu Phe Cys				
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Gly Arg Val Thr Val Ala His Lys Lys Ala Pro Pro Ala Leu Ile Asp				
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Glu Cys Ile Glu Lys Phe Asn His Val Ser Gly Ser Arg Gly Ser Glu				
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	215	220	225	896
cct gtg cgc agg ccc atg cgc aag tcc ttc tcc cag ccc ggc ctg cgc				
Pro Val Arg Arg Pro Met Arg Lys Ser Phe Ser Gln Pro Gly Leu Arg				
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Ser Leu Ala Phe Arg Lys Glu Leu Gln Asp Gly Gly Leu Arg Ser Ser				
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ggc ttc ttc agc tcc ttc gag gag agc gac att gag aac cac ctc att				
Gly Phe Phe Ser Ser Phe Glu Glu Ser Asp Ile Glu Asn His Leu Ile				
	260	265	270	1040
agc gga cac aat att gtg cag ccc aca gat atc gag gaa aat cga act				
Ser Gly His Asn Ile Val Gln Pro Thr Asp Ile Glu Glu Asn Arg Thr				
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atg ctc ttc acg att ggc cag tct gaa gtt tac ctc atc agt cct gac				
Met Leu Phe Thr Ile Gly Gln Ser Glu Val Tyr Leu Ile Ser Pro Asp				
	295	300	305	1136
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Thr Lys Lys Ile Ala Leu Glu Lys Asn Phe Lys Glu Ile Ser Phe Cys				
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Ser Gln Gly Ile Arg His Val Asp His Phe Gly Phe Ile Cys Arg Glu				
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Ser Ser Gly Gly Gly Gly Phe His Phe Val Cys Tyr Val Phe Gln Cys				
	340	345	350	1280
aca aat gag gct ctg gtt gat gaa att atg atg acc ctg aaa cag gcc				
Thr Asn Glu Ala Leu Val Asp Glu Ile Met Met Thr Leu Lys Gln Ala				
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Phe Thr Val Ala Val Gln Gln Thr Ala Lys Ala Pro Ala Gln Leu				
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tgt gag ggc tgc ccc ctg caa agc ctg cac aag ctc tgt gag agg ata				
Cys Glu Gly Cys Pro Leu Gln Ser Leu His Lys Leu Cys Glu Arg Ile				
	390	395	400	1424
gag gga atg aat tct tcc aaa aca aaa cta gaa ctg caa aag cac ctg				
Glu Gly Met Asn Ser Ser Lys Thr Lys Leu Glu Leu Gln Lys His Leu				
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acg aca tta acc aat cag gag cag gcg act att ttt gaa gag gtt cag				
Thr Thr Leu Thr Asn Gln Glu Gln Ala Thr Ile Phe Glu Glu Val Gln				
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Lys Leu Arg Pro Arg Asn Glu Gln Arg Glu Asn Glu Leu Ile Ile Ser				
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Phe Leu Arg Cys Leu Tyr Glu Glu Lys Gln Lys Glu His Ile His Ile	
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Glu Leu Pro Pro Ser Ala Thr Arg Phe Arg Leu Asp Met Leu Lys Asn	
485 490 495	
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Lys Ala Lys Arg Ser Leu Thr Glu Ser Leu Glu Ser Ile Leu Ser Arg	
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Gly Asn Lys Ala Arg Gly Leu Gln Glu His Ser Ile Ser Val Asp Leu	
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Glu Glu Pro Ala Pro Leu Ser Pro Gln Gln Ala Phe Arg Arg Arg Ala	
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Asn Thr Leu Ser His Phe Pro Ile Glu Cys Gln Glu Pro Pro Gln Pro	
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Ala Asn His Leu Gly Asp Ser Gly Gly Thr Pro Val Lys Thr Arg Arg	
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His Ser Trp Arg Gln Gln Ile Phe Leu Arg Val Ala Thr Pro Gln Lys	
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Leu Pro Pro Arg Ser Pro Leu Glu Pro Val Cys Glu Asp Gly Pro Phe	
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Gly Pro Pro Pro Glu Glu Lys Lys Arg Thr Ser Arg Glu Leu Arg Glu	
710 715 720	
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Lys Glu Asn Gln Lys Leu Gln Ala Ser Glu Asn Asp Leu Leu Asn Lys	
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cgc ctg aag ctc gat tat gaa gaa att act ccc tgt ctt aaa gaa gta	2480

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Ser Asp Asn Gln Arg Met Asp Lys Leu Glu Lys Thr Asn Ser Ser Leu			
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Arg Lys Gln Asn Leu Asp Leu Leu Glu Gln Leu Gln Val Ala Asn Gly			
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Ser Lys Leu Lys Gln Ala Met Leu Thr Leu Glu Leu Glu Arg Ser Ala			
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Asp Arg Glu Pro Glu Cys Thr Gln Pro Glu Pro Thr Gly Asp *			
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Ser Val Asp Phe Gly Leu Gln Leu Val Gly Ser Leu Pro Val His Ser	
	20
	25
	30
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Ser	Gln	Gln	Trp	Asp	Pro	Leu	Ile	Tyr	Ser	Ser	Ile	Phe	Glu	Cys	Lys		
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Pro	Gln	Arg	Val	His	Lys	Leu	Ile	His	Asn	Ser	His	Asp	Pro	Ser	Tyr		
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Phe	Ala	Cys	Leu	Ile	Lys	Glu	Asp	Ala	Val	His	Arg	Gln	Ser	Ile	Cys		
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tat	gtg	ttc	aaa	gcc	gat	gat	caa	aca	aaa	gtg	cct	gag	atc	atc	agc	610	
Tyr	Val	Phe	Lys	Ala	Asp	Asp	Gln	Thr	Lys	Val	Pro	Glu	Ile	Ile	Ser		
					135					140					145		
tcc	atc	cgt	cag	gcg	ggg	aag	atc	gcc	cgg	cag	gag	gag	ctg	cac	tgc	658	
Ser	Ile	Arg	Gln	Ala	Gly	Lys	Ile	Ala	Arg	Gln	Glu	Glu	Leu	His	Cys		
				150				155						160			
ccg	tcc	gag	ttc	gac	gac	acg	ttt	tcc	aag	aag	ttc	gag	gtg	ctc	ttc	706	
Pro	Ser	Glu	Phe	Asp	Asp	Thr	Phe	Ser	Lys	Lys	Phe	Glu	Val	Leu	Phe		
				165				170					175				
tgc	ggc	cgc	gtg	acg	gtg	gcg	cac	aag	aag	gct	ccg	ccg	gcc	ctg	atc	754	
Cys	Gly	Arg	Val	Thr	Val	Ala	His	Lys	Lys	Ala	Pro	Pro	Ala	Leu	Ile		
		180				185					190						
gac	gag	tgc	atc	gag	aag	ttc	aat	cac	gtc	agc	ggc	agc	cgg	ggg	tcc	802	
Asp	Glu	Cys	Ile	Glu	Lys	Phe	Asn	His	Val	Ser	Gly	Ser	Arg	Gly	Ser		
		195				200					205						
gag	agc	ccc	cgc	ccc	aac	ccg	ccc	cat	gcc	gcg	ccc	aca	ggg	agc	cag	850	
Glu	Ser	Pro	Arg	Pro	Asn	Pro	Pro	His	Ala	Ala	Pro	Thr	Gly	Ser	Gln		
					215					220					225		
gag	cct	gtg	cgc	agg	ccc	atg	cgc	aag	tcc	ttc	tcc	cag	ccc	ggc	ctg	898	
Glu	Pro	Val	Arg	Arg	Pro	Met	Arg	Lys	Ser	Phe	Ser	Gln	Pro	Gly	Leu		
				230					235					240			
cgc	tcg	ctg	gcc	ttt	agg	aag	gag	ctg	cag	gat	ggg	ggc	ctc	cga	agc	946	
Arg	Ser	Leu	Ala	Phe	Arg	Lys	Glu	Leu	Gln	Asp	Gly	Gly	Leu	Arg	Ser		
			245					250					255				
agc	ggc	ttc	ttc	agc	tcc	ttc	gag	gag	agc	gac	att	gag	aac	cac	ctc	994	
Ser	Gly	Phe	Phe	Ser	Ser	Phe	Glu	Glu	Ser	Asp	Ile	Glu	Asn	His	Leu		
		260				265					270						
att	agc	gga	cac	aat	att	gtg	cag	ccc	aca	gat	atc	gag	gaa	aat	cga	1042	
Ile	Ser	Gly	His	Asn	Ile	Val	Gln	Pro	Thr	Asp	Ile	Glu	Glu	Asn	Arg		
		275				280					285						
act	atg	ctc	ttc	acg	att	ggc	cag	tct	gaa	gtt	tac	ctc	atc	agt	cct	1090	
Thr	Met	Leu	Phe	Thr	Ile	Gly	Gln	Ser	Glu	Val	Tyr	Leu	Ile	Ser	Pro		
					295					300					305		
gac	acc	aaa	aaa	ata	gca	ttg	gag	aaa	aat	ttt	aag	gag	ata	tcc	ttt	1138	
Asp	Thr	Lys	Lys	Ile	Ala	Leu	Glu	Lys	Asn	Phe	Lys	Glu	Ile	Ser	Phe		
				310					315					320			
tgc	tct	cag	ggc	atc	aga	cac	gtg	gac	cac	ttt	ggg	ttt	atc	tgt	cgg	1186	
Cys	Ser	Gln	Gly	Ile	Arg	His	Val	Asp	His	Phe	Gly	Phe	Ile	Cys	Arg		
			325					330					335				
gag	tct	tcc	gga	ggt	ggc	ggc	ttt	cat	ttt	gtc	tgt	tac	gtg	ttt	cag	1234	
Glu	Ser	Ser	Gly	Gly	Gly	Gly	Phe	His	Phe	Val	Cys	Tyr	Val	Phe	Gln		

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tgc aca aat gag gct ctg gtt gat gaa att atg atg acc ctg aaa cag			1282
Cys Thr Asn Glu Ala Leu Val Asp Glu Ile Met Met Thr Leu Lys Gln			
355	360	365	
gcc ttc acg gtg gcc gca gtg cag cag aca gct aag gcg cca gcc cag			1330
Ala Phe Thr Val Ala Ala Val Gln Gln Thr Ala Lys Ala Pro Ala Gln			
370	375	380	385
ctg tgt gag ggc tgc ccc ctg caa agc ctg cac aag ctc tgt gag agg			1378
Leu Cys Glu Gly Cys Pro Leu Gln Ser Leu His Lys Leu Cys Glu Arg			
390	395	400	
ata gag gga atg aat tct tcc aaa aca aaa cta gaa ctg caa aag cac			1426
Ile Glu Gly Met Asn Ser Ser Lys Thr Lys Leu Glu Leu Gln Lys His			
405	410	415	
ctg acg aca tta acc aat cag gag cag gcg act att ttt gaa gag gtt			1474
Leu Thr Thr Leu Thr Asn Gln Glu Gln Ala Thr Ile Phe Glu Glu Val			
420	425	430	
cag aaa ttg aga ccg aga aat gag cag cga gag aat gaa ttg att att			1522
Gln Lys Leu Arg Pro Arg Asn Glu Gln Arg Glu Asn Glu Leu Ile Ile			
435	440	445	
tct ttt ctg aga tgt tta tat gaa gag aaa cag aaa gaa cac atc cat			1570
Ser Phe Leu Arg Cys Leu Tyr Glu Glu Lys Gln Lys Glu His Ile His			
450	455	460	465
att ggg gag atg aag cag aca tcg cag atg gca gca gag aat att gga			1618
Ile Gly Glu Met Lys Gln Thr Ser Gln Met Ala Ala Glu Asn Ile Gly			
470	475	480	
agt gaa tta cca ccc agt gcc act cga ttt agg cta gat atg ctg aaa			1666
Ser Glu Leu Pro Pro Ser Ala Thr Arg Phe Arg Leu Asp Met Leu Lys			
485	490	495	
aac aaa gca aag aga tct tta aca gag tct tta gaa agt att ttg tcc			1714
Asn Lys Ala Lys Arg Ser Leu Thr Glu Ser Leu Glu Ser Ile Leu Ser			
500	505	510	
cgg ggt aat aaa gcc aga ggc ctg cag gaa cac tcc atc agt gtg gat			1762
Arg Gly Asn Lys Ala Arg Gly Leu Gln Glu His Ser Ile Ser Val Asp			
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ctg gat agc tcc ctg tct agt aca tta agt aac acc agc aaa gag cca			1810
Leu Asp Ser Ser Leu Ser Ser Thr Leu Ser Asn Thr Ser Lys Glu Pro			
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tct gtg tgt gaa aag gag gcc ttg ccc atc tct gag agc tcc ttt aag			1858
Ser Val Cys Glu Lys Glu Ala Leu Pro Ile Ser Glu Ser Ser Phe Lys			
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ctc ctc ggc tcc tcg gag gac ctg tcc agt gac tcg gag agt cat ctc			1906
Leu Leu Gly Ser Ser Glu Asp Leu Ser Ser Asp Ser Glu Ser His Leu			
565	570	575	
cca gaa gag cca gct ccg ctg tcg ccc cag cag gcc ttc agg agg cga			1954
Pro Glu Glu Pro Ala Pro Leu Ser Pro Gln Gln Ala Phe Arg Arg Arg			
580	585	590	
gca aac acc ctg agt cac ttc ccc atc gaa tgc cag gaa cct cca caa			2002
Ala Asn Thr Leu Ser His Phe Pro Ile Glu Cys Gln Glu Pro Pro Gln			
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Pro Ala Arg Gly Ser Pro Gly Val Ser Gln Arg Lys Leu Met Arg Tyr			
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His Ser Val Ser Thr Glu Thr Pro His Glu Arg Lys Asp Phe Glu Ser			
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aaa gca aac cat ctt ggt gat tct ggt ggg act cct gtg aag acc cgg			2146
Lys Ala Asn His Leu Gly Asp Ser Gly Gly Thr Pro Val Lys Thr Arg			
645	650	655	

agg cat tcc tgg agg cag cag ata ttc ctc cga gta gcc acc ccg cag	2194
Arg His Ser Trp Arg Gln Gln Ile Phe Leu Arg Val Ala Thr Pro Gln	
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Lys Ala Cys Asp Ser Ser Arg Tyr Glu Asp Tyr Ser Glu Leu Gly	
675 680 685	
gag ctt ccc cca cga tct cct tta gaa cca gtt tgt gaa gat ggg ccc	2290
Glu Leu Pro Pro Arg Ser Pro Leu Glu Pro Val Cys Glu Asp Gly Pro	
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ttt ggc ccc cca cca gag gaa aag aaa agg aca tct cgt gag ctc cga	2338
Phe Gly Pro Pro Pro Glu Glu Lys Lys Arg Thr Ser Arg Glu Leu Arg	
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Glu Leu Trp Gln Lys Ala Ile Leu Gln Gln Ile Leu Leu Leu Arg Met	
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Glu Lys Glu Asn Gln Lys Leu Gln Ala Ser Glu Asn Asp Leu Leu Asn	
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aag cgc ctg aag ctc gat tat gaa gaa att act ccc tgt ctt aaa gaa	2482
Lys Arg Leu Lys Leu Asp Tyr Glu Glu Ile Thr Pro Cys Leu Lys Glu	
755 760 765	
gta act aca gtg tgg gaa aag atg ctt agc act cca gga aga tca aaa	2530
Val Thr Thr Val Trp Glu Lys Met Leu Ser Thr Pro Gly Arg Ser Lys	
770 775 780 785	
att aag ttt gac atg gaa aaa atg cac tcg gct gtt ggg caa ggt gtg	2578
Ile Lys Phe Asp Met Glu Lys Met His Ser Ala Val Gly Gln Gly Val	
790 795 800	
cca cgt cat cac cga ggt gaa atc tgg aaa ttt cta gct gag caa ttc	2626
Pro Arg His His Arg Gly Glu Ile Trp Lys Phe Leu Ala Glu Gln Phe	
805 810 815	
cac ctt aaa cac cag ttt ccc agc aaa cag cag cca aag gat gtg cca	2674
His Leu Lys His Gln Phe Pro Ser Lys Gln Gln Pro Lys Asp Val Pro	
820 825 830	
tac aaa gaa ctc tta aag cag ctg act tcc cag cag cat gcg att ctt	2722
Tyr Lys Glu Leu Leu Lys Gln Leu Thr Ser Gln Gln His Ala Ile Leu	
835 840 845	
att gac ctt ggg cga acc ttt cct aca cac cca tac ttc tct gcc cag	2770
Ile Asp Leu Gly Arg Thr Phe Pro Thr His Pro Tyr Phe Ser Ala Gln	
850 855 860 865	
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Leu Gly Ala Gly Gln Leu Ser Leu Tyr Asn Ile Leu Lys Ala Tyr Ser	
870 875 880	
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Leu Leu Asp Gln Glu Val Gly Tyr Cys Gln Gly Leu Ser Phe Val Ala	
885 890 895	
ggc att ttg ctt ctt cat atg agt gag gaa gag gcg ttt aaa atg ctc	2914
Gly Ile Leu Leu Leu His Met Ser Glu Glu Glu Ala Phe Lys Met Leu	
900 905 910	
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Lys Phe Leu Met Phe Asp Met Gly Leu Arg Lys Gln Tyr Arg Pro Asp	
915 920 925	
atg att att tta cag atc cag atg tac cag ctc tcg agg ttg ctt cat	3010
Met Ile Ile Leu Gln Ile Gln Met Tyr Gln Leu Ser Arg Leu Leu His	
930 935 940 945	
gat tac cac aga gac ctc tac aat cac ctg gag gag cac gag atc ggc	3058
Asp Tyr His Arg Asp Leu Tyr Asn His Leu Glu Glu His Glu Ile Gly	
950 955 960	
ccc agc ctc tac gct gcc ccc tgg ttc ctc acc atg ttt gcc tca cag	3106

Pro Ser Leu Tyr Ala Ala Pro Trp Phe Leu Thr Met Phe Ala Ser Gln
965 970 975
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Phe Pro Leu Gly Phe Val Ala Arg Val Phe Asp Met Ile Phe Leu Gln
980 985 990
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Gly Thr Glu Val Ile Phe Lys Val Ala Leu Ser Leu Leu Gly Ser His
995 1000 1005
aag ccc ttg att ctg cag cat gaa aac cta gaa acc ata gtt gac ttt 3250
Lys Pro Leu Ile Leu Gln His Glu Asn Leu Glu Thr Ile Val Asp Phe
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Ile Lys Ser Thr Leu Pro Asn Leu Gly Leu Val Gln Met Glu Lys Thr
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Ile Asn Gln Val Phe Glu Met Asp Ile Ala Lys Gln Leu Gln Ala Tyr
1045 1050 1055
gaa gtt gag tac cac gtc ctt caa gaa gaa ctt atc gat tcc tct cct 3394
Glu Val Glu Tyr His Val Leu Gln Glu Glu Leu Ile Asp Ser Ser Pro
1060 1065 1070
ctc agt gac aac caa aga atg gat aaa tta gag aaa acc aac agc agc 3442
Leu Ser Asp Asn Gln Arg Met Asp Lys Leu Glu Lys Thr Asn Ser Ser
1075 1080 1085
tta cgc aaa cag aac ctt gac ctc ctt gaa cag ttg cag gtg gca aat 3490
Leu Arg Lys Gln Asn Leu Asp Leu Leu Glu Gln Leu Gln Val Ala Asn
1090 1095 1100 1105
ggg agg atc caa agc ctt gag gcc acc att gag aag ctc ctg agc agt 3538
Gly Arg Ile Gln Ser Leu Glu Ala Thr Ile Glu Lys Leu Leu Ser Ser
1110 1115 1120
gag agc aag ctg aag cag gcc atg ctt acc tta gaa ctg gag cgg tcg 3586
Glu Ser Lys Leu Lys Gln Ala Met Leu Thr Leu Glu Leu Glu Arg Ser
1125 1130 1135
gcc ctg ctg cag acg gtg gag gag ctg cgg cgg cgg agc gca gag ccc 3634
Ala Leu Leu Gln Thr Val Glu Glu Leu Arg Arg Arg Ser Ala Glu Pro
1140 1145 1150
agc gac cgg gag cct gag tgc acg cag ccc gag ccc acg ggc gac tga 3682
Ser Asp Arg Glu Pro Glu Cys Thr Gln Pro Glu Pro Thr Gly Asp *
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35 40 45
Arg Leu Ser Arg Gln Ser Thr Arg Lys Glu Pro Val Thr Lys Gln Val

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 Arg Leu Cys Val Ser Pro Ser Gly Leu Arg Cys Glu Pro Glu Pro Gly
 65 70 75 80
 Arg Ser Gln Gln Trp Asp Pro Leu Ile Tyr Ser Ser Ile Phe Glu Cys
 85 90 95
 Lys Pro Gln Arg Val His Lys Leu Ile His Asn Ser His Asp Pro Ser
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 Tyr Phe Ala Cys Leu Ile Lys Glu Asp Ala Val His Arg Gln Ser Ile
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 Cys Tyr Val Phe Lys Ala Asp Asp Gln Thr Lys Val Pro Glu Ile Ile
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 Cys Pro Ser Glu Phe Asp Asp Thr Phe Ser Lys Lys Phe Glu Val Leu
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 Phe Cys Gly Arg Val Thr Val Ala His Lys Lys Ala Pro Pro Ala Leu
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 Ile Asp Glu Cys Ile Glu Lys Phe Asn His Val Ser Gly Ser Arg Gly
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 Gln Glu Pro Val Arg Arg Pro Met Arg Lys Ser Phe Ser Gln Pro Gly
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 Ser Ser Gly Phe Phe Ser Ser Phe Glu Glu Ser Asp Ile Glu Asn His
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 Leu Ile Ser Gly His Asn Ile Val Gln Pro Thr Asp Ile Glu Glu Asn
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 Arg Thr Met Leu Phe Thr Ile Gly Gln Ser Glu Val Tyr Leu Ile Ser
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 Pro Asp Thr Lys Lys Ile Ala Leu Glu Lys Asn Phe Lys Glu Ile Ser
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 325 330 335
 Arg Glu Ser Ser Gly Gly Gly Gly Phe His Phe Val Cys Tyr Val Phe
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 Gln Cys Thr Asn Glu Ala Leu Val Asp Glu Ile Met Met Thr Leu Lys
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 370 375 380
 Gln Leu Cys Glu Gly Cys Pro Leu Gln Ser Leu His Lys Leu Cys Glu
 385 390 395 400
 Arg Ile Glu Gly Met Asn Ser Ser Lys Thr Lys Leu Glu Leu Gln Lys
 405 410 415
 His Leu Thr Thr Leu Thr Asn Gln Glu Ala Thr Ile Phe Glu Glu
 420 425 430
 Val Gln Lys Leu Arg Pro Arg Asn Glu Gln Arg Glu Asn Glu Leu Ile
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 Ile Ser Phe Leu Arg Cys Leu Tyr Glu Glu Lys Gln Lys Glu His Ile
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 His Ile Gly Glu Met Lys Gln Thr Ser Gln Met Ala Ala Glu Asn Ile
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 Gly Ser Glu Leu Pro Ser Ala Thr Arg Phe Arg Leu Asp Met Leu
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 Lys Asn Lys Ala Lys Arg Ser Leu Thr Glu Ser Leu Glu Ser Ile Leu
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 Ser Arg Gly Asn Lys Ala Arg Gly Leu Gln Glu His Ser Ile Ser Val

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Pro	Ser	Val	Cys	Glu	Lys	Glu	Ala	Leu	Pro	Ile	Ser	Glu	Ser	Ser	Phe		
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Lys	Leu	Leu	Gly	Ser	Ser	Glu	Asp	Leu	Ser	Ser	Asp	Ser	Glu	Ser	His		
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Leu	Pro	Glu	Glu	Pro	Ala	Pro	Leu	Ser	Pro	Gln	Gln	Ala	Phe	Arg	Arg		
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Arg	Ala	Asn	Thr	Leu	Ser	His	Phe	Pro	Ile	Glu	Cys	Gln	Glu	Pro	Pro		
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Gln	Pro	Ala	Arg	Gly	Ser	Pro	Gly	Val	Ser	Gln	Arg	Lys	Leu	Met	Arg		
	610					615					620						
Tyr	His	Ser	Val	Ser	Thr	Glu	Thr	Pro	His	Glu	Arg	Lys	Asp	Phe	Glu		
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Ser	Lys	Ala	Asn	His	Leu	Gly	Asp	Ser	Gly	Gly	Thr	Pro	Val	Lys	Thr		
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Arg	Arg	His	Ser	Trp	Arg	Gln	Gln	Ile	Phe	Leu	Arg	Val	Ala	Thr	Pro		
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Gln	Lys	Ala	Cys	Asp	Ser	Ser	Ser	Arg	Tyr	Glu	Asp	Tyr	Ser	Glu	Leu		
		675					680					685					
Gly	Glu	Leu	Pro	Pro	Arg	Ser	Pro	Leu	Glu	Pro	Val	Cys	Glu	Asp	Gly		
	690					695					700						
Pro	Phe	Gly	Pro	Pro	Pro	Glu	Glu	Lys	Lys	Arg	Thr	Ser	Arg	Glu	Leu		
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Arg	Glu	Leu	Trp	Gln	Lys	Ala	Ile	Leu	Gln	Gln	Ile	Leu	Leu	Leu	Arg		
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Met	Glu	Lys	Glu	Asn	Gln	Lys	Leu	Gln	Ala	Ser	Glu	Asn	Asp	Leu	Leu		
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Lys	Ile	Lys	Phe	Asp	Met	Glu	Lys	Met	His	Ser	Ala	Val	Gly	Gln	Gly		
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Val	Pro	Arg	His	His	Arg	Gly	Glu	Ile	Trp	Lys	Phe	Leu	Ala	Glu	Gln		
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Phe	His	Leu	Lys	His	Gln	Phe	Pro	Ser	Lys	Gln	Gln	Pro	Lys	Asp	Val		
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Pro	Tyr	Lys	Glu	Leu	Leu	Lys	Gln	Leu	Thr	Ser	Gln	Gln	His	Ala	Ile		
		835					840	</									

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Gln Gly Thr	Glu Val Ile Phe Lys Val Ala Leu Ser	Leu Leu Gly Ser			
	995		1000		1005
His Lys Pro	Leu Ile Leu Gln His Glu Asn Leu Glu Thr Ile Val Asp				
	1010		1015		1020
Phe Ile Lys Ser Thr	Leu Pro Asn Leu Gly Leu Val Gln Met Glu Lys				
1025		1030		1035	1040
Thr Ile Asn Gln Val Phe Glu Met Asp	Ile Ala Lys Gln Leu Gln Ala				
	1045		1050		1055
Tyr Glu Val Glu Tyr His Val Leu Gln Glu Glu Leu Ile Asp Ser Ser					
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Pro Leu Ser Asp Asn Gln Arg Met Asp Lys Leu Glu Lys Thr Asn Ser					
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Ser Leu Arg Lys Gln Asn Leu Asp Leu Leu Glu Gln Leu Gln Val Ala					
	1090		1095		1100
Asn Gly Arg Ile Gln Ser Leu Glu Ala Thr Ile Glu Lys Leu Leu Ser					
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Ser Glu Ser Lys Leu Lys Gln Ala Met Leu Thr Leu Glu Leu Glu Arg					
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Ser Ala Leu Leu Gln Thr Val Glu Glu Leu Arg Arg Arg Ser Ala Glu					
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Pro Ser Asp Arg Glu Pro Glu Cys Thr Gln Pro Glu Pro Thr Gly Asp					
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